

ABSTRACT OF THE DISCLOSURE

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An apparatus for the production of gasolines with a low sulphur content from a catalytic cracking gasoline, comprising a fractionation column (1) provided with a line (2) for introducing raw gasoline from a catalytic cracking step and comprising at least two lines, one (3) in the upper portion of the column for taking off a light cut, and the other (4) in the lower portion of the column for taking off the heavy cut; a zone (5) for hydrotreatment in the presence of hydrogen, comprising a catalytic bed, an inlet line (6) for the light gasoline cut to be treated, said line being connected either to the fractionation column (1), or to the zone (7) for treatment over a palladium catalyst, said hydrotreatment zone also comprising an outlet line (8) for hydrotreated effluent; a stripping zone (9) comprising a line for introducing light hydrotreated gasoline, a line (10) for evacuating H₂S and an outlet line (11) for stripped light gasoline; and said apparatus also comprising at least one of the following sweetening zones: a sweetening zone (12) located after the stripping zone, comprising a line for introducing the stripped light gasoline and a line (14) for supplying an oxidizing agent to said zone; a treatment zone (7) located after the hydrotreatment zone and comprising a line (3) for introducing the light gasoline cut from the fractionation column, an outlet line for the treated light gasoline cut, said zone also comprising at least one catalyst bed containing 0.1-1% of palladium deposited on a support, and said apparatus further comprising a line (13) for taking the stripped and sweetened light gasoline out of the apparatus, and connected either to the zone (12) or to the zone (9).